Statistics Review ANSWERS

1) C	2) A	3) C	4) A	5) A
6) A	7) B	8) A	9) A	10) D
11) 3	12) 3	13) 3	14) 4	15) $Min = 1$ , $Q1 = 2$ , $Med = 3$ , $Q3 = 4$ , $Max = 5$

16. b) y = 1.75x + 7.86  $r \approx 0.901$  It's a linear, strong, positive correlation.

16. c) 50 = 1.75x + 7.86 24.08 = x Approximately 24 hours.

17. a)

Favorite Movie Types							
	Action	Drama	Comedy	Total			
Men	15	9	6	30			
Women	6	10	.4	20			
Total	21	19	10	50			

b) Find the relative frequencies to compare and describe the survey.

Favorite Movie Types								
	Action	Drama	Comedy	Total				
Men	15/50 = 30%	9/50=18%	6/50=12%	30, 150 = 60%				
Women	6/50=12%	1%50=20%	4/50 = 8%	20/50=40%				
Total	21/50=42%	19/50 = 38%	10/50 = 200%	100%				

## c) <u>Examples</u>:

Less than 10% of the movie goers were women whose favorite movie type was comedy. 30% of the movie goers were men whose favorite type was action.

80% of the movie goers had either action or drama as their favorite.



The bottom 50% is identical for both sets of data. The upper 50% for December has a higher variability than for January. The range for December is 120 while the range for January is 94.

19. b. 6 because it is the median and falls within the most frequent interval.

19. c. sx = 6.38